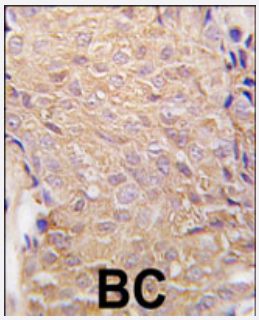
ALDH6A1 polyclonal antibody

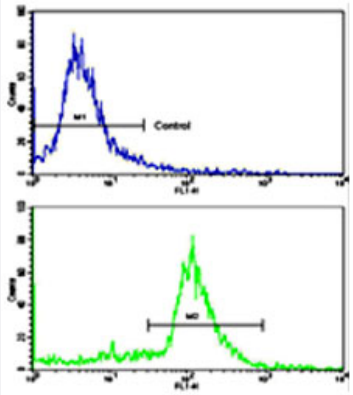
Catalog # PAB3127 Size 400 uL

Applications



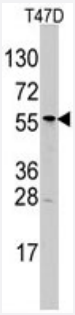
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with ALDH6A1 polyclonal antibody (Cat # PAB3127) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow Cytometry

Flow cytometric analysis of ATDC5 cells using ALDH6A1 polyclonal antibody (Cat # PAB3127)(bottom histogram) compared to a negative control cell (top histogram).
FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Western Blot (Cell lysate)

Western blot analysis of ALDH6A1 polyclonal antibody (Cat # PAB3127) in T-47D cell line lysates (35 ug/lane). ALDH6A1 (arrow) was detected using the purified polyclonal antibody.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of ALDH6A1.

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Immunogen	A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human ALDH6A1.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein A purification
Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:10-50) Flow cytometry (1:10-50) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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Gene Info — ALDH6A1

Entrez GeneID	4329
Protein Accession#	NP_005580;Q02252

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Gene Name	ALDH6A1
Gene Alias	MGC40271, MMSADHA, MMSDH
Gene Description	aldehyde dehydrogenase 6 family, member A1
Omim ID	603178
Gene Ontology	Hyperlink
Gene Summary	This protein belongs to the aldehyde dehydrogenases family of proteins. This enzyme plays a role in the valine and pyrimidine catabolic pathways. The product of this gene, a mitochondrial methyl malonate semialdehyde dehydrogenase, catalyzes the irreversible oxidative decarboxylation of m alonate and methylmalonate semialdehydes to acetyl- and propionyl-CoA. Methylmalonate semial dehyde dehydrogenase deficiency is characterized by elevated beta-alanine, 3-hydroxypropionic acid, and both isomers of 3-amino and 3-hydroxyisobutyric acids in urine organic acids. [provided by RefSeq
Other Designations	aldehyde dehydrogenase 6A1|mitochondrial acylating methylmalonate-semialdehyde dehydrogen ase

Publication Reference

- Assignment of the PAX6 gene to bovine chromosome 15q25-->q27 by fluorescence in situ hybridization and confirmation by radiation hybrid mapping.

  Kuiper H, Williams JL, Distl O, Drogemuller C.

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  Anderson NL, Polanski M, Pieper R, Gatlin T, Tirumalai RS, Conrads TP, Veenstra TD, Adkins JN, Pounds JG, Fagan R, Lobley A.

  Molecular & Cellular Proteomics 2004 Apr; 3(4):311.

- Molecular characterization of methylmalonate semialdehyde dehydrogenase deficiency.

  Chambliss KL, Gray RG, Rylance G, Pollitt RJ, Gibson KM.

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Pathway

- Inositol phosphate metabolism

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- Metabolic pathways
- Propanoate metabolism

- Valine

Disease

- Tobacco Use Disorder

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